HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.
Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information

Ohio [39]	Huron County [077]	Greenwich [32382]	0.4 MI E OF ROME GRNWCH	41-03-48 = 41.063333	082-30-18 = -82.505000

3948315	Highway agency district 3	Owner	County Highway Agency [02]	Maintenance responsibility	County Highway Agency [02]

Route	#Num!	OMEGA 145	Toll	On free road [3]	Features intersected	OMEGA / SW BR VRMLN RVR

Design - main	Steel [3]	Design - approach		Kilometerpoint	0 km = 0.0 mi
1	Truss - Thru [10]	0	Other [00]	Year built	1910
				Year reconstructed	1989
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is not eligible for the NRHP. [5]

Total length	25.6 m = 84.0 ft	Length of maximum span	24.7 m = 81.0 ft	Deck width, out-to-out	5.6 m = 18.4 ft	Bridge roadway width, curb-to-curb	4.7 m = 15.4 ft

Inventory Route, Total Horizontal Clearance	4.7 m = 15.4 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft

Deck structure type	Wood or Timber [8]
Type of wearing surface	Gravel [8]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	14.6 metric ton = 16.1 tons
1.1 km = 0.7 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	16.2 metric ton = 17.8 tons
	Bridge posting		Design Load	M 18 / H 20 [4]

Functional Details

Average Daily Traffic	78	Average daily truck traffi	0 %	Year	1989	Future average daily traffic	108
Year	2030						
Road classification	Local (Rural) [09]	Lanes on structure	1	Approach roadway width	7.3 m = 24.0 ft		
Type of service on bridge	Highway [1]	Direction of traffic	One lane bridge for 2 - way traffic [3]	Bridge median			
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control	Not applicable, no waterway. [N]		
Navigation vertical clearanc	0 = N/A	Navigation horizontal clearance	0 = N/A				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	99.99 m = 328.1 ft				
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]						
Minimum lateral underclearance on right	0 = N/A	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	0 = N/A	Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]				
Appraisal ratings - underclearances	N/A [N]						

Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost

Roadway improvement cost

Length of structure improvement

Total project cost

Year of improvement cost estimate

Border bridge - state

Border bridge - percent responsibility of other state

Border bridge - structure number

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Superior to present desirable criteria [9]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Better than present minimum criteria [7]
Condition ratings - deck	Fair [5]		

Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	32.4

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	
Traffic safety features - approach guardrail	
Traffic safety features - approach guardrail ends	

Inspection date	June 2010 [0610]	Designated inspection frequency	12	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	June 2010 [0610]
Other special inspection	Not needed [N]	Other special inspection date	

District: **03** County **HURON**
(101) Location: **0.4 MI E OF ROME GRNWCH** (102) Facility Carried: **OMEGA 145**
(2)FIPS Code: **GREENWICH TWP** (103) Route On Bridge: **TOWNSHIP** (104) Route Under Bridge: **NON-HIGHWAY**
(9) Direction of Traffic: **ONE LANE FOR 2-WAY TRAFFIC** (10) Temporary: **N** (11)Truck Network: **N** (12)Parallel: **N**
(95) Insp: **COUNTY** (96) Maint: **COUNTY** (97) Routine: **COUNTY** (100) Type Serv: (On): **HIGHWAY** (Under): **WATERWAY**

Inventory Route Data

(3) Route On/Under: **ON** Hwy Sys: **COUNTY/TOWNSHIP HIGHWAY**
Route No.: **T0145** Dir: Des: **MAINLINE** Pref:
(4) Feature Intersected: **OMEGA / SW BR VRMLN RVR**
(5) County: **GWT** Mileage: **0038** Special Desig:
(6) Avg. Daily Traffic(ADT): **78** (7) ADT Year: **1989**
(8) Truck Traf: **4** (14) NHS: **NO** - **X** (15) Corridor: **N**
(16) Functional Class: **LOCAL ROAD-RURAL** (19) Strahnt: **Not Applicable**

Intersected Route Data

(22) Route On/Under: Hwy Sys:
Route No.: Dir: Des: Pref:
(23) Feature Intersected:
(24) County: Mileage: Special Desig:
(25) Avg. Daily Traffic(ADT): **0** (26) ADT Year:
(27) Truck Traf: **0** (28) NHS: - (29) Corridor:
(30) Functional Class: (36) Strahnt: **Not Applicable**

Clearance On the Bridge

(154) Min Hriz on Bridge: NC: **0.0** Ft Card: **15.4** Ft
(155) Prac Max Vert On Brg: **9999.9** Ft
(67) Min Vrt Clr On Brg: NC: **0.0** Ft Card: **9999.9** Ft
(80) Min Latl Clr: NC: **0.0 / 0.0** Ft Card: **5.1 / 5.0** Ft
(81) Vrt Clr Lft: **0.0** Ft

Structure Information

(38) Bypass Length: **07** Miles
(39) Latitude: **41 Deg 3.8 Min** Longitude: **82 Deg 30.3 Min**
(40) Toll: **ON FREE ROAD**
(41) Date Built: **07/01/1910** (42) Major Rehabilitation: **01/01/1989**
(43) No. Lanes On: **1** No. Lanes Under: **0**
(44) Horiz Curve: **00 Deg. D00M Min.** (45) Skew: **0** Deg
(49) App. Rdw Width: **24** Ft (50) Brg. Rdw Width: **15.4** Ft
(51) Deck Width: **18.4** Ft Deck Area: **1550** Sq. Ft
(52) Median Type: **NONE** / **NON BARRIE** / **NO JOINT**
(53) Bridge Median: **NO MEDIAN**
(54) Sidewalks: (left) **0** Ft (right) **0** Ft
(55) Type Curb or Sidewalks:
(Left) Matl: **NONE** Type: **NONE**
(Right) Matl: **NONE** Type: **NONE**
(56) Flared: **N** (57) Composite: **non-composite**
(58) Railing: **STL GUARDRL ON STL, CONCR, OR TMBR POSTS**
(59) Deck Drainage: **OVER THE SIDE (W/O DRIP STRIP)**
(60) Deck Type: **LAMINATED TIMBER STRIP**
(61) Deck Protection: External: **NONE**
Internal: **NONE**
(62) Wearing Surface: **GRAVEL**
Thickness: **2.0** in (119) Date of Wearing Surface: **01/01/1990**
Slope Protection: **NONE-NATURAL PROTECTION(GRASS,BUSHES)**

(63) Main Spans Number: **1** Type: **STEEL / TRUSS / PONY (TRUSS)**
Approach Spans Number: **0** Type: **NONE / NONE / NONE**
Total Spans: **1** (65) Max Span: **81** Ft (66) Overall Leng: **84** Ft

(70) Substructure	(71) Foundation and Scour Information	
Abut-Rear Matl: **CONCRETE**	Type: **SOLID WALL**	Fnd: **SPREAD FOOTING**
Abut-Fwd Matl: **CONCRETE**	Type: **PROPRIETARY WALL W/STUB T**	Fnd: **SPREAD FOOTING**
Pier-Pred Matl: **NONE**	Type: **NONE**	Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
Pier-Other Matl: **NONE**	Type: **NONE**	Fnd: **NONE/NOT APPLICABLE (SUCH AS CULVERTS)**
No of Piers Predominate: **NN**	Other: **NN**	Other: **NN**

(86) Stream Velocity: **000.0** (74) Scour: **COUNTERMEAS INSTALLED TO CORRECT PROBLEM**
(189) Dive: **N Freq: 0** Probe: **Y** Freq: **12** (75) Chan Prot: **NONE**
(189) Date of last Dive Insp: (152) Drainage Area: **022** Sq Mi

Clearance Under the Bridge

(156) Min. Horiz Under Clear: NC: **0.0** Ft Card: **0.0** Ft
(157) Prac Max Vrt Under Clear: **0.0** Ft
(77) Min Vert Under Clear: NC: **0.0** Ft Card: **0.0** Ft
(78) Min Lat Under Clear: NC: **0.0 / 0.0** Ft Card: **0.0 / 0.0** Ft

Load Rating Information

(48) Design Load: **H/20**
(83) Operating: **36** Ton
Inventory: **26** Ton
Ohio Percent of Legal Load **75**
Year of Rating: **2010**
(84) Analysis: **LOAD FACTOR (LF)**
(85) Rate Soft: **OTHER** Analyzed by: **BLN**
Analysis on Bars: **NOT ON BARS [DEFAULT]**

(88-89) Appraisal

(Including calculated Items)
(88) Waterway Adequacy **8**
(89) Approach Alignment **9**
Calc Gen Appraisal: **4**
Calc Deck Geometry: **7**
Calc Underclearance: **N**

Approach Information

(109) Approach Guardrail: **STEEL BEAM**
(110) Approach Pavement: **GRAVEL** (111) Grade: **GOOD**

Culvert Information

(131) Culvert Type: **NONE/NOT APPLICBLE** (127) Length: **0.0** Ft
(129) Depth of Fill: **0.0** Ft (130) Headwalls: **NONE**

General Information

(121) Main Member **N/A (CULVERTS, TRUSSES, ETC.)** (122) Moment Plate: **NONE**
(169) Expansion Joint: **NONE**
(124) Bearing Devices: **SLIDING (BRONZE)/NONE**
(126) Navigation: **Control- X** Vert Clr: **0.0** Ft Horiz Clear:: **0.0** Ft
(193) Spec Insp: **N** Freq: **0** Date:
(188) Fracture Critical Insp: **Y** Freq: **24** Date: **2011-08-23**
(138) Long Member: **TWO TRUSSES (WELDED)** (135) Hinges: **NOT APPLICABLE**
(141) Structural Steel Memb: **UNKNOWN** (139) Framing: **NONE**
Railing: **UNKNOWN**
Pay Wt: **66** pounds Prime Loc: **UNKNOWN** Paint: **OTHER**
Bridge Dedicated Name:

General Information (Continued)

(---) Hist Significance: **NOT HISTORIC**
(69) NBIS: **Y**
(---) Hist Builder: **UNKNOWN**
Hist Build Year: **1910**
(69) Hist Type: **WARREN (RIVETED)**
(161) Special Features (see below):
(105) Border Bridge State: Resp % (106) SFN:

Proposed Improvements

(90) Type Work: **-**
(90) Length: Ft
(90) Bridge Cost ($1000s): **0**
(90) Roadway Cost ($1000s): **0**
(90) Total Project Cost ($1000s): **0**
(90) Year:
(91) Future ADT (On Bridge): **0**
(92) Year of Future ADT: **2030**

Programming Info

PID Number:
PID Status:
PID Date:

Original Plans Information

(142) Fabricator: **OHIO BRIDGE CO**
(143) Contractor: **HURON CO HWY**
(144) Ohio Original Construction Project No.:
(---) Microfilm Reel:
(151) Standard Drawing:
Aperture Cards: Orig: **N** Repair: **N** Fabr: **N**
Plan Information Available: **2FIELD MEASURED INFORMATION**

(153) Repair Projects

1. **/ 020**	2. **/ MMM**	3. **/ 020**
4. **/ 002**	5. **890000 / 003**	6.
7.	8.	9.
10.		

Inspection Summary

(I-8) Deck:	**5**
(I-32) Superstructure:	**4**
(I-42) Substructure:	**5**
(I-50) Culvert:	
(I-54) Channel:	**4**
(I-60) Approaches:	**4**
(I-66) General Appraisial:	**4**
(I-66) Operational Status:	**P**
Inspection Date:	**08/24/2011**
(94) Desig Insp Freq:	**12 Months**

(I-69) Survey Items

Railings:	**0 DOES NOT MEET CURRENT STANDARDS**
Transitions:	**0 DOES NOT MEET CURRENT STANDARDS**
Guardrail:	**0 DOES NOT MEET CURRENT STANDARDS**
Rail Ends:	**0 DOES NOT MEET CURRENT STANDARDS**
In Depth:	**1 MEETS CURRENT STANDARDS**
Fracture Critical:	**1 MEETS CURRENT STANDARDS**
Scour Critical:	**N NONE N/A**
Critical Findings:	**N NONE N/A**
Insp. Update Date:	**01/17/2012**

Utilities

(46) Electric:	**N**
Gas:	**N**
Sanitary Sewer:	**N**
Telephone:	**N**
TV Cable:	**N**
Water:	**N**
Other:	**N**

Special Features

(161) Lighting:	**N**
Fencing:	**N**
Glare-Screen:	**N**
Splash-Guard:	**N**
Catwalks:	**N**
Other-Feat:	**N**
(184) Signs-on:	**N**
Signs-Under:	**N**
(162) Fence-Ht:	**0.0** Ft
(163) Noise Barr:	**N**

SFNs Replacing this retired bridge: **-**
SFNs That where replaced by this bridge: **-**
This bridge was retired and copied to:
The bridge was copied from:

INV Field Bridge Marker: **HUR-T0145-0038 -**
INT Field Bridge Marker: **---**

PONTIS CoRe elements and Condition States

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
		0						

(*) Percentages Should add to 100%

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

3	9	4	8	3	1	5

1 Structure File Number 7

Bridge Number **HUR** (CO) **T0145** (ROUTE) **0038** (UNIT) GREENWICH TWP **Date Built 07/01/1910 - 1989**

District **03** Bridge Type **STEEL/TRUSS/PONY (TRUSS)** Type Service **1** **15 OMEGA / SW BR VRMLN RVR** **HUR**

Item	Data	Code	Rating	Item	Data	Code	Rating
DECK	Out/Out 18.4				THCK = 2.0		
1. Floor	2-LAMINATED TIMBER STRIP	8	2	2. Wearing Surface	8-GRAVEL	41	
3. Curbs, Sidewalks, Walkways	N-NONE / N-NONE	9		4. Median	W.S. Date = 01/01/1990	42	
5. Railing	7-STL GUARDRL ON STL, CO	10	2	6. Drainage	1-OVER THE SIDE (W/O DRI	43	2
7. Expansion Joints	N-NONE	11		**8. Summary**		44	5

Item	Data	Code	Rating	Item	Data	Code	Rating
SUPERSTRUCTURE	MAX.SPAN=81						
9. Alignment		12	2	10. Beams/Girders/Slab	N-N/A (CULVERTS, TRUSSES	45	
11. Diaphragms or Crossframes	TOT.LGTH=84	13		12. Joists/Stringers		46	2
13. Floor Beams		14	2	14. Floor Beam Connections		47	2
15. Verticals		15	2	16. Diagonals		48	3
17. End Posts		16	2	18. Top Chord		49	1
19. Lower Chord		17	3	20. Lower Lateral Bracing		50	
21. Top Lateral Bracing		18		22. Sway Bracing		51	
23. Portals		19		24. Bearing Devices	3-SLIDING (BRONZE) / N-NONE	52	2
25. Arch		20		26. Arch Columns or Hangers		53	
27. Spandrel Walls		21		28. Protective Coating System	TYPE = 0-OTHER / DATE = 01/01/1989	54	5
29. Pins/Hangers/Hinges		22		30. Fatigue Prone Connections		55	1
31. Live Load Response		23	E	**32. Summary**		56	4

Item	Data	Code	Rating	Item	Data	Code	Rating
SUBSTRUCTURE	2-CONCRETE				PIERS=0 SPANS = 1		
33. Abutments	2-CONCRETE	24	2	34. Abutment Seats		57	2
35. Piers	TYPE = N-NONE	25		36. Pier Seats		58	
37. Backwalls		26	2	38. Wingwalls	ABUTMENT:=SPREAD / SPREAD	59	3
39. Fenders and Dolphins		27		40. Scour	7-COUNTERMEAS INSTALLED	60	2 / 2
41. Slope Protection	N-NONE	28		**42. Summary**	DIVE DT=N/A	62	5

Item	Data	Code	Rating	Item	Data	Code	Rating
CULVERTS							
43. General		29		44. Alignment		63	
45. Shape		30		46. Seams		64	
47. Headwalls or Endwalls		31		48. Scour		65	
49.		32		50. Summary		66	

Item	Data	Code	Rating	Item	Data	Code	Rating
CHANNEL					N-NONE		
51. Alignment		33	2	52. Protection		67	
53. Waterway Adequacy		34	3	**54. Summary**		68	4

Item	Data	Code	Rating	Item	Data	Code	Rating
APPROACHES							
55. Pavement	4-GRAVEL	35	3	56. Approach Slabs		69	
57. Guardrail	1-STEEL BEAM	36	3	58. Relief Joints		70	
59. Embankment	BRDG.WIDTH=15.4	37	2	**60. Summary**	PCT.LEGAL=75	71	4

Item	Data	Code	Rating	Item	Data	Code	Rating
GENERAL					ROUTINE.RESP: 3-COUNTY		
61. Navigation Lights		38		62. Warning Signs	MAINT.RESP: 3-COUNTY	72	2
63. Sign Supports	MVC ON=9999 UND=0000	39		64. Utilities		73	
65. Vertical Clearance		40	N	**66. General Appraisal & Operational Status**		74	COND 4 / STAT P

67. INSPECTED BY

SIGNED

76 PE: | | 5 | 5 | 4 | 8 | 8 |

78 INITIALS: J W W

68. REVIEWED BY

SIGNED

81 PE: | | | | | | |

83 INITIALS: | | | |

DOT 2852

DECK AREA 1,550

Date (86–91): 0 8 2 4 1 1

(92–99, 69 Survey): 0 0 0 0 1 1 N N

Date (100–105): | | | | | | |

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

BRIDGE INSPECTION REPORT

BR-86 REV 02-95

3	9	4	8	3	1	5

1 Structure File Number 7

Bridge Number **HUR** (CO) **T0145** (ROUTE) **0038** (UNIT)

Date Built 07/01/1910 - 1989

District **03** Bridge Type **STEEL/TRUSS/PONY (TRUSS)**

Type Service **1** **1** **5**

OMEGA / SW BR VRMLN RVR

00 NO REMARKS FOUND FOR THIS INSPECTION.